

**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**

☒ Declaration Submitted with Initial Filing
OR
☐ Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

Attorney Docket Number HT-23

First Named Inventor Bing Zhou

COMPLETE IF KNOWN

Application Number

Filing Date

Art Unit

Examiner Name

As the below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Supported Noble Metal Nanometer Catalyst Particles Containing
Controlled (111) Crystal Face Exposure

(Title of the Invention)

the specification of which

☒ is attached hereto

OR

☐ was filed on (MM/DD/YYYY)

as United States Application Number or PCT International

Application Number and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
None			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

[Page 1 of 2]

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION — Utility or Design Patent ApplicationDirect all correspondence to: ☐ Customer Number or Bar Code Label ☐ OR ☒ Correspondence address below

Name Hydrocarbon Technologies, Inc. Attn: Bruce Pelrine

Address 1501 New York Ave.

City Lawrenceville

State NJ

ZIP 08648

Country USA

Telephone 609-394-3101

Fax 609-394-1278

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR : ☐ A petition has been filed for this unsigned inventorGiven Name
(first and middle [if any]) BingFamily Name
or Surname ZhouInventor's
Signature *Zhou Bing*

Date 01/29/02

Residence: City Cranbury

State NJ

Country USA

Citizenship Canada

Mailing Address 2 Falcon Ct.

City Cranbury

State NJ

ZIP 08512

Country USA

NAME OF SECOND INVENTOR: ☐ A petition has been filed for this unsigned inventorGiven Name
(first and middle [if any]) MichaelFamily Name
or Surname RueterInventor's
Signature *Michael Rueter*

Date 1/29/2002

Residence: City Plymouth Meeting

State PA

Country USA

Citizenship USA

Mailing Address 350 Maiden Lane

City Plymouth Meeting

State PA

ZIP 19462

Country USA

☐ Additional inventors are being named on the _____ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

Please type a plus sign (+) inside this box → ☐

PTO/SB/81 (02-01)

Approved for use through 10/31/2002 OMB 0651-0035

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	
Filing Date	
First Named Inventor	Bing Zhou
Title	
Group Art Unit	
Examiner Name	
Attorney Docket Number	HT-23

I hereby appoint:

☐ Practitioners at Customer Number

OR

☒ Practitioner(s) named below:

Place Customer
Number Bar Code
Label here

Name	Registration Number
Daniel M. Kennedy	32,144

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☐ The above-mentioned Customer Number.

OR

☐ Practitioners at Customer Number

OR

Place Customer
Number Bar Code
Label here

<input checked="" type="checkbox"/> Firm or Individual Name	Hydrocarbon Technologies, Inc. Attn: B. Pelrine				
Address	1501 New York Ave.				
Address					
City	Lawrenceville	State	NJ	Zip	08648
Country	USA				
Telephone	609-394-3102, X235	Fax	609-394-1278		

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name David Tanner, Vice President - Operations, HTI

Signature

Date

David L. Tanner
11/30/02

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____ forms are submitted.

Burden Hour Statement This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : Bing Zhou, et al

Atty Docket : HT-23

Serial No. :

Filed :

For :Supported Noble Metal Nanometer Catalyst Particles
Containing Controlled (111) Crystal Faces Exposure

Group Art Unit :

Examiner :

Lawrenceville, NJ

Honorable Assistant Commissioner of Patents

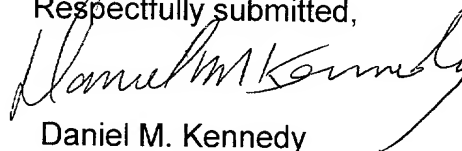
Washington, D.C. 20231

Re: Small Entity Declaration

Sir:

As the enclosed assignment forms attest, the inventors' of the captioned invention have assigned all rights to their invention to Hydrocarbon Technologies, Inc. a NJ Corporation and wholly owned subsidiary of Headwaters, Inc. It is herein asserted that both Hydrocarbon Technologies, Inc. and the parent Corporation, Headwaters, Inc., qualify as "small entities" under USPTO Rules. The Corporations, alone or in combination, employ less than 500 persons. Accordingly, for purposes of filing fee calculation for the patent application of the captioned invention, the benefits of small entity status are elected.

Respectfully submitted,



Daniel M. Kennedy

Reg. Patent Agent No. 32,144

1006289-01310
20250629